

AMENDMENTS TO THE CLAIMS

Please cancel Claims 1-20 and Claims 41-43.

21. (Currently amended) An intraductal fluid sampling system, comprising:
a control unit;
a patient interface unit;
a control line extending between the control unit and the patient interface unit;
and
a closed recirculation flow path, extending along the control line and providing communication between a first component carried by the control unit and a second component carried by the patient interface unit; and
a disposable patient interface carried by the patient interface unit, for contacting the patient;
wherein the disposable patient interface comprises a flexible polymeric membrane and a rigid support for maintaining patency under vacuum, attached to the flexible polymeric membrane.
22. (Cancelled)
23. (Original) An intraductal fluid sampling system as in Claim 21, wherein the first component comprises a reservoir.
24. (Original) An intraductal fluid sampling system as in Claim 23, wherein the reservoir is removably carried by the control unit.
25. (Original) An intraductal fluid sampling system as in Claim 23, wherein the flow path comprises a movable wall.
26. (Original) An intraductal fluid sampling system as in Claim 23, wherein the reservoir comprises a compressible container.
27. (Original) An intraductal fluid sampling system as in Claim 21, wherein the second component comprises at least one inflatable bladder.
28. (Original) An intraductal fluid sampling system as in Claim 27, comprising at least 4 inflatable bladders.
29. (Original) An intraductal fluid sampling system as in Claim 28, comprising at least 6 inflatable bladders.

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30. (Currently amended) An intraductal fluid sampling system as in Claim 21[[22]], further comprising a heat exchange media contained within the closed recirculation flow path~~loop~~.

31. (Original) An intraductal fluid sampling system as in Claim 28, wherein each bladder has an inflated width of no more than about 3 inches and an inflated length of no more than about 4 inches.

32. (Original) An intraductal fluid sampling system as in Claim 31, wherein each bladder has an inflated width of no more than about 2 inches and an inflated length of no more than about 3 inches.

33. (Original) An intraductal fluid sampling system as in Claim 27, wherein each bladder has an inflated thickness of no more than about 1 inch.

34. (Original) An intraductal fluid sampling system as in Claim 33, wherein each bladder has an inflated thickness of no more than about 0.75 inches.

35. (Original) An intraductal fluid sampling system as in Claim 21, further comprising a heat source in the control unit.

36. (Original) An intraductal fluid sampling system as in Claim 35, wherein the heat source is removably in thermal communication with the first component.

37. (Original) An intraductal fluid sampling system as in Claim 36, further comprising a pump in the control unit.

38. (Original) An intraductal fluid sampling system as in Claim 37, wherein the flow path is positioned such that the pump applies compressive force to the flow path.

39. (Original) An intraductal fluid sampling system as in Claim 21, further comprising a support in the patient interface unit, for supporting the second component in compressive contact with the patient.

40. (Original) An intraductal fluid sampling system as in Claim 39, wherein the support is adjustable.

41. (Cancelled)

42. (Cancelled)

43. (Cancelled)